## **WEST Search History**

DATE: Tuesday, May 21, 2002

Set Name Query side by side			Set Name result set
DB=U	SPT; PLUR=YES; OP=OR		
L32	L28 and ((vitamin adj a) or retinyl retinol retinoi\$)	2	L32
L31	lamella and (glycerid\$ monoglycerid\$).ab.	1	L31
L30	lamella and (glycerid\$ monoglycerid\$).ab. and cosmetic	0	L30
L29	L28 and ((vitamin adj a) or retinyl retinol retinoic)	2	L29
L28	lamella and (glycerid\$ monoglycerid\$) and cosmetic	20	L28
L27	lamella.ab. and (glycerid\$ monoglycerid\$)	0	L27
L26	lamella and ((glycerid\$ monoglycerid\$) near5 (stearic palmitic myristic))	1	L26
L25	lamella and (glycerid\$ monoglycerid\$)	68	L25
DB=JB	PAB,EPAB,DWPI; PLUR=YES; OP=OR		•
L24	lamella and (glycerid\$ monoglycerid\$)	9	L24
L23	L22	0	L23
DB=U	SPT; PLUR=YES; OP=OR		
L22	L21	1	L22
L21	L20 and lamella	1	L21
L20	yakult.as.	95	L20
L19	(lamellar) and ((vitamin adj a) or retinol or retinyl) and ((monoglycerid\$ or glycerid\$ ) near10 (stearic palmitic myristic))	1	L19
L18	(lamellar (liquid adj crystal)) and ((vitamin adj a) or retinol or retinyl) and (monoglycerid\$ or (glycerid\$ near3 acid)) and (stearic palmitic myristic)	13	L18
L17	(lamellar (liquid adj crystal)) and ((vitamin adj a) or retinol or retinyl) and (monoglycerid\$ or (glycerid\$ near3 acid))	21	L17
L16	(lamellar (liquid adj crysta\$)).ab. and ((vitamin adj a) or retinol or retinyl) and glycerid\$	4	L16
L15	(lamellar (liquid adj crystal)) and ((vitamin adj a) or retinol or retinyl) and glycerid\$	33	L15
L14	L5 and (glycerid\$)	0	L14
L13	L12	0	L13
DB=JB	PAB,EPAB,DWPI; PLUR=YES; OP=OR		
L12	L5 and (glycerid\$)	0	L12
DB=USPT; $PLUR=YES$ ; $OP=OR$			
L11	L5 and (monoglycerid\$)	0	L11
L10	(smell odor) near20 ((vitamin adj a) or retinol or retinyl)	1	L10
L9	L8	0	L9



DB=JPAB,EPAB,DWPI; PLUR=YES; OP=OR			
L8	(smell odor) near20 ((vitamin adj a) or retinol or retinyl)	0	L8
L7	(lamellar (liquid adj crystal)).ab. and ((vitamin adj a) or retinol or retinyl)	3	L7
L6	L5	0	L6
DB=USPT; PLUR=YES; OP=OR			
L5	(lamellar (liquid adj crystal)).ab. and ((vitamin adj a) or retinol or retinyl)	9	L5
L4	(lamellar (liquid adj crystal)).ab. and ((vitamin adj a) or retin\$).ab.	13	L4
L3	lamellar.ab. and ((vitamin adj a) or retin\$)	. 32	L3
L2	lamellar and (monoglyceride\$ and (myristic palmitic stearic)) and ((vitamin adj a) or retin\$)	11	L2
L1	lamellar.ab. and (monoglyceride\$ and (myristic palmitic stearic)) and ((vitamin adj a) or retin\$)	0	L1
Ll		0	

END OF SEARCH HISTORY

Generate Collection Print

L24: Entry 7 of 9

File: DWPI

Oct 3, 2000

DERWENT-ACC-NO: 1996-184670

DERWENT-WEEK: 200051

COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: Moisture-retaining agent having high moisture retention and high temp. stability - contains <u>lamella</u> structure based on fatty acid mono:glyceride(s) and e.g. alkyl glycerol and/or water-soluble polymers

PATENT-ASSIGNEE:

ASSIGNEE CODE YAKULT HONSHA KK HONS

PRIORITY-DATA: 1994JP-0201872 (August 26, 1994).

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 JP 3093930 B2
 October 3, 2000
 008
 A61K007/48

 JP 08059449 A
 March 5, 1996
 009
 A61K007/48

APPLICATION-DATA:

PUB-NO APPL-DATE APPL-NO DESCRIPTOR

JP 3093930B2 August 26, 1994 1994JP-0201872

JP 3093930B2 JP 8059449 Previous Publ.

JP 08059449A August 26, 1994 1994JP-0201872

INT-CL (IPC): A61 K 7/00; A61 K 7/48

ABSTRACTED-PUB-NO: JP 08059449A

BASIC-ABSTRACT:

Moisture-retaining agent contains a  $\underline{lamella}$  structure based on fatty acid  $\underline{monoglycerides}$  and one or a mixt. alkyl and alkenyl glycerol ethers and water soluble polymers.

Pref. glycerol ether is a constituent of the <a href="lamella">lamella</a> structure.

Also claimed are cosmetic materials contg. the moisture-retaining agent.

ADVANTAGE - Agent retains moisture of corneal layer, is temp. stable and has a good feel when used.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: MOIST RETAIN AGENT HIGH MOIST RETAIN HIGH TEMPERATURE STABILISED CONTAIN LAMELLA STRUCTURE BASED FATTY ACID MONO <u>GLYCERIDE</u> ALKYL GLYCEROL WATER SOLUBLE POLYMER

DERWENT-CLASS: D21 E17

CPI-CODES: D08-B09A; E10-E04G; E10-E04J; E10-E04M3; E10-H01D;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*
 Fragmentation Code
 H4 H401 H402 H481 H482 H581 H721 H8 J0 J011
 J2 J271 M220 M224 M225 M226 M231 M232 M233 M262
 M272 M281 M313 M321 M332 M343 M383 M391 M416 M620
 M782 M903 M904 Q254
 Markush Compounds
 199619-B4901-M

Chemical Indexing M3 \*02\*
Fragmentation Code
H4 H402 H482 H5 H581 H8 M220 M224 M225 M226
M231 M232 M233 M272 M281 M313 M321 M332 M343 M383
M391 M416 M620 M782 M903 M904 Q254
Markush Compounds
199619-B4902-M

SECONDARY-ACC-NO: CPI Secondary Accession Numbers: C1996-058452

Generate Collection

Print

#### **Search Results -** Record(s) 1 through 9 of 9 returned.

1. Document ID: US 6346507 B1

L5: Entry 1 of 9

File: USPT

Feb 12, 2002

US-PAT-NO: 6346507

DOCUMENT-IDENTIFIER: US 6346507 B1

TITLE: Liquid crystal composition and cosmetic preparation

DATE-ISSUED: February 12, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Watanabe; Kei Kanagawa JPX Matsuzaki; Fumiaki Kanagawa JPX Yanaki; Toshio Kanagawa JPX Nakamura; Kazuyoshi Niigata JPX Fujii; Natsuko Toyama JPX

US-CL-CURRENT: <u>510/343</u>; <u>510/417</u>, <u>510/466</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw Desc Image

2. Document ID: US 6342238 B1

L5: Entry 2 of 9

File: USPT

Jan 29, 2002

US-PAT-NO: 6342238

DOCUMENT-IDENTIFIER: US 6342238 B1

TITLE: Organogel comprising an oxidation-sensitive hydrophilic compound, and uses

thereof, in particular cosmetic uses

DATE-ISSUED: January 29, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Simonnet; Jean-Thierry Paris FRX
Legret; Sylvie Chatillon FRX

US-CL-CURRENT: 424/401; 264/4.1, 424/450, 424/59, 424/62, 514/2, 514/474, 514/844

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw Desc Image

3. Document ID: US 6303109 B1

L5: Entry 3 of 9

File: USPT

Oct 16, 2001

US-PAT-NO: 6303109

DOCUMENT-IDENTIFIER: US 6303109 B1

TITLE: Body cleansing agent

DATE-ISSUED: October 16, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Foerster; Thomas Erkrath DEX Hollenbrock; Martina Duesseldorf DEX Scholz; Wolfhard Krefeld DEX Pittermann; Wolfgang Duesseldorf DEX Schmitt; Michael Haan DEX

US-CL-CURRENT: <u>424</u>/<u>70.31</u>; <u>424</u>/<u>401</u>, <u>424</u>/<u>70.1</u>, <u>424</u>/<u>70.19</u>, <u>424</u>/<u>70.21</u>, <u>424</u>/<u>70.22</u>, <u>424</u>/<u>70.24</u>, <u>424</u>/<u>70.9</u>

#### Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMIC Draw Desc Image

#### 4. Document ID: US 6139854 A

L5: Entry 4 of 9

File: USPT

Oct 31, 2000

US-PAT-NO: 6139854

DOCUMENT-IDENTIFIER: US 6139854 A

TITLE: Skin lightening compositions

DATE-ISSUED: October 31, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Kawato; Junji Omihachiman Jpx

US-CL-CURRENT: <u>424/401</u>; <u>424/62</u>

#### Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC Draw Desc Image

#### ☐ 5. Document ID: US 6066328 A

L5: Entry 5 of 9

File: USPT

May 23, 2000

US-PAT-NO: 6066328

DOCUMENT-IDENTIFIER: US 6066328 A

TITLE: Cosmetic or dermatological composition comprising an oil-in-water emulsion comprising oily globules with a lamellar liquid crystal coating

DATE-ISSUED: May 23, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Ribier; Alain Paris FRX Simonnet; Jean-Thierry Paris FRX Michelet; Jacques Champlan FRX

US-CL-CURRENT: 424/401; 424/450, 424/59, 514/844, 514/845, 514/846, 514/938, 514/939,

<u>514/940</u>, <u>514/941</u>, <u>514/942</u>, <u>514/943</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWMC | Drawl Desc | Image

6. Document ID: US 5925364 A

L5: Entry 6 of 9

File: USPT

Jul 20, 1999

US-PAT-NO: 5925364

DOCUMENT-IDENTIFIER: US 5925364 A

TITLE: Cosmetic or dermatological composition comprising an oil-in-water emulsion

comprising oily globules with a lamellar liquid crystal coating

DATE-ISSUED: July 20, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY
Ribier; Alain Paris FRX
Simonnet; Jean-Thierry Paris FRX
Michelet; Jacques Champlan FRX

US-CL-CURRENT: 424/401; 424/450, 424/59, 514/844, 514/845, 514/846, 514/938, 514/939,

<u>514/940</u>, <u>514/941</u>, <u>514/942</u>, <u>514/943</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWC | Drawl Desc | Image |

7. Document ID: US 5919487 A

L5: Entry 7 of 9

File: USPT

Jul 6, 1999

US-PAT-NO: 5919487

DOCUMENT-IDENTIFIER: US 5919487 A

TITLE: Nanoparticles coated with a lamellar phase based on silicone surfactant and

compositions containing them

DATE-ISSUED: July 6, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Simonnet; Jean-Thierry Paris FRX

Richart; Pascal Paris FRX

US-CL-CURRENT: <u>424/490</u>; <u>424/47</u>, <u>424/489</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWMC | Drawl Desc | Image

3. Document ID: US 5837728 A

L5: Entry 8 of 9

File: USPT

Nov 17, 1998

US-PAT-NO: 5837728

DOCUMENT-IDENTIFIER: US 5837728 A

TITLE: 9-cis retinoic acid esters and amides and uses thereof

ZIP CODE

DATE-ISSUED: November 17, 1998

INVENTOR-INFORMATION:

NAME CITY

Purcell; William P. Memphis TN

US-CL-CURRENT: <u>514/529</u>; <u>514/559</u>, <u>554/221</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw Desc Image

9. Document ID: US 5658575 A

L5: Entry 9 of 9

File: USPT

STATE

Aug 19, 1997

COUNTRY

US-PAT-NO: 5658575

DOCUMENT-IDENTIFIER: US 5658575 A

TITLE: Cosmetic or dermatological composition comprising an oil-in-water emulsion

based on oily globules provided with a lamellar liquid crystal coating

DATE-ISSUED: August 19, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY
Ribier; Alain Paris FRX
Simonnet; Jean-Thierry Paris FRX
Griat; Jacqueline Ablon FRX

US-CL-CURRENT: <u>424/401</u>; <u>514/937</u>, <u>514/938</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw, Desc Image

Generate Collection | Print

Terms Documents
(lamellar (liquid adj crystal)).ab. and ((vitamin adj a) or retinol or retinyl)

Display Format: CIT Change Format

<u>Previous Page</u> <u>Next Page</u>

#### **End of Result Set**

Generate Collection Print

L4: Entry 13 of 13

File: USPT

Jul 23, 1991

DOCUMENT-IDENTIFIER: US 5034228 A

TITLE: Pharmaceutical composition, in particular dermatological or cosmetic, comprising hydrous lipidic lamellar phases or liposomes containing a retinoid or a structural analogue thereof such as a carotenoid

#### <u>Abstract Paragraph Left</u> (1):

This invention relates to a composition comprising hydrous lipidic <u>lamellar</u> phases or liposomes containing, as an active agent a <u>retinoid</u> or a structural analogue of <u>retinoid</u>, such as a carotenoid or tretinoin. These compositions are more efficient against acne and less irritant for the skin and they are used as a pharmaceutical composition, notably dermatological or cosmetic.

Generate Collection Print

L5: Entry 1 of 9

File: USPT

Feb 12, 2002

DOCUMENT-IDENTIFIER: US 6346507 B1

TITLE: Liquid crystal composition and cosmetic preparation

#### <u>Abstract Paragraph Left</u> (1):

In order to provide a <u>liquid crystal</u> composition and a cosmetic preparation, which is favorable in adaptation to skin and gives smooth feeling in case of using as a skin care product, and which is favorable in adaptation to makeup and has high makeup removing effect in case of using as a make-up remover, and which is favorable in adaptation to hair and has favorable feeling of use to provide glossiness to hair in case of using as a hair care product, a cosmetic preparation of the present invention comprises (A) 10 to 60 wt % of a nonionic surfactant, (B) 1 to 50 wt % in all of one or more of a water-soluble substance having a hydroxyl group, (C) 1 to 70 wt % of a silicone oil, and (D) 10 to 60 wt % of water and has a <u>liquid crystal</u> phase and/or an isotropic surfactant continuous phase.

#### Brief Summary Paragraph Right (31):

As an example of the medicament: Vitamins such as Vitamin A oil, <a href="retinol">retinol</a>, palmitate, inositol, pyridoxine hydrochloride, benzyl nicotinate, nicotinamide, dl-.alpha.-tocopheryl nicotinate, magnesium ascorbate phosphate, ascorbate 2-glucoside, Vitamin D.sub.2 (ergocalciferol), dl-.alpha.-tocopherol 2-L ascorbate phosphate diester potassium, dl-.alpha.-tocopherol, dl-.alpha.-tocopheryl acetate, panthotenic acid, and biotin; hormones such as estradiol and ethinylestradiol; anti-inflammatory agents such as allantoin and azulene; whitening agents such as arbutin; astringents such as zinc oxide and tannic acid; refreshing agents such as L-menthol and camphor; and the other medicaments such as sulfur, lysozyme chloride, pyridoxine hydrochloride, and .gamma.-oryzanol.

# Generate Collection Print

L5: Entry 6 of 9

File: USPT

Jul 20, 1999

DOCUMENT-IDENTIFIER: US 5925364 A

TITLE: Cosmetic or dermatological composition comprising an oil-in-water emulsion comprising oily globules with a lamellar liquid crystal coating

#### Abstract Paragraph Left (1):

The present invention relates to a cosmetic or dermatological composition comprising an emulsion of oil-in-water type formed of oily globules which are each provided with a <u>lamellar liquid crystal</u> coating and are dispersed in an aqueous phase. Each oily globule containing at least one lipophilic compound which is cosmetically or dermatologically active is individually coated with a monolamellar or aligolamellar layer obtained from at least one lipophilic surface-active agent, from at least one hydrophilic surface-active agent and from at least one ionic amphiphilic lipid imparting to the emulsion a pH ranging from 5.5 to 7.5, the coated oily globules having a mean diameter of less than 500 nanometers.

#### Brief Summary Paragraph Right (36):

D-.alpha.-tocopherol, DL-.alpha.-tocopherol, D-.alpha.-tocopheryl acetate, DL-.alpha.-tocopheryl acetate, ascorbyl palmitate, glycerides of vitamin F, D-vitamins and especially vitamin D.sub.2 and vitamin D.sub.3, retinol, retinol esters (retinol palmitate and retinol propionate), .beta.-carotene, D-panthenol, farnesol, farnesyl acetate, oils rich in essential fatty acids and especially jojoba oil and blackcurrant oil, 5-n-octanoylsalicylic acid, salicylic acid, alkyl esters of .alpha.-hydroxy acids such as citric acid, lactic acid and glycolic acid, asiatic acid and madecassic acid, asiaticoside, whole extract of Centella asiatica, .beta.-glycyrrhetinic acid, .alpha.-bisabolol, ceramides and especially 2-oleoylamino-1,3-octadecane, phytanetriol, sphingomyelin from milk, phospholipids of marine origin which are rich in polyunsaturated essential acids, ethoxyquine, extract of romarin, extract of balm, quercetin, extract of dried microalgae (algoxan red from Algatec), essential oil of bergamot, octyl methoxycinnamate (Parsol MCX--Givaudan-Roure), butyl-methoxydibenzoylmethane (Parsol 1789--Givaudan-Roure), octyl triazone (Uvinul T150--BASF), yellow, brown, black and red iron oxides, titanium oxides which may be provided in micrometric or nanometric form or in coated (perfluoroalkyl) form, 3,5-di-tert-butyl-4-hydroxybenzylidene-3-camphor, 2-benzotriazol-2-yl-4-methyl-6-[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)])oxy]disiloxanyl]-2-methylpropyl]phenol, perfluoro oil (perfluorodecalin and perfluorooctyl bromide) and hyperoxygenated corn oil (Epaline 100 marketed by the company Carilene).

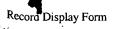
#### <u>Detailed Description Paragraph Table</u> (2):

Phase A1: Diglyceryl distearate marketed by the company 1.75% Nihon Emulsion under the reference "EMALEX PSGA" Polyoxyethylenated methylglucose 1.15% distearate 20 EO, marketed by the company Amerchol under the name "GLUCAM E 20 DISTEARATE" Sodium dicetyl phosphate 0.75% Stearyl heptanoate 4% Vaseline codex 1.5% Avocado oil 3.2% Jojoba oil 3% Volatile silicone oil 2.7% Vitamin E acetate 1% Natural D-.alpha.-tocopherol marketed by the 1% company Henkel under the name "COPHEROL 1300" Vitamin F glycerides 3% Retinol palmitate marketed by Fluka, 0.5% assayed at 1500 IU/mg Phase A2: Silicone gum marketed by Dow Corning 3% under the name "Q.sub.2 -1403 FLUID" Propylparaben 0.2% Perfume 0.3% Phase B: Glycerol 3% Hydroxyproline 1% D-Panthenol 1% Methylparaben 0.3% Demineralized water qs 100% Phase C: Mixture of carboxyvinyl polymers marketed 0.4% under the name "CARBOPOL 940" by the company Goodrich Demineralized water 9.5% Triethanolamine 0.25%

#### CLAIMS:

18. Composition according to claim 1, wherein the oily globules contain at least one

fatty or lipophilic substance selected from the group consisting of D-.alpha.-tocopherol, DL-.alpha.-tocopherol, DL-.alpha.-tocopherol, DL-.alpha.-tocopheryl acetate, DL-.alpha.-tocopheryl acetate, ascorbyl palmitate, glycerides of vitamin F, D-vitamins, retinol, retinol esters, .beta.-carotene, D-panthenol, farnesol, farnesyl acetate, oils rich in essential fatty acids, 5-n-octanoylsalicylic acid, salicylic acid, alkyl esters of .alpha.-hydroxy acids, asiatic acid, madecassic acid, asiaticoside, whole extract of Centella asiatica, .beta.-glycyrrhetinic acid, .alpha.-bisabolol, ceramides, phytanetriol, sphingomyelin from milk, phospholipids of marine origin which are rich in polyunsaturated essential fatty acids, ethoxyquine, extract of romarin, extract of balm, quercetin, extract of dried microalgae, essential oil of bergamot, octyl methoxycinnamate, butylmethoxy-dibenzoylmethane, octyl triazone, yellow, brown, black and red iron oxides, titanium oxides in micrometric or nanometric form or in coated form, 3,5-di-tert-butyl-4-hydroxybenzylidene-3-camphor, 2-benzotriazol-2-yl-4-methyl-6-[3-[1,3,3,3-tetramethyl-1-[trimethylsilyl)o xy]disiloxanyl]-2-methylpropyl]phenol, perfluoro oil and hyperoxygenated corn oil.



#### **End of Result Set**

Print Generate Collection

L7: Entry 3 of 3

File: DWPI

Jul 18, 2000

DERWENT-ACC-NO: 1991-111460

DERWENT-WEEK: 200045

COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: Prepn. of lipid vesicles in aqueous suspension - by soln. of lipid in solvent, suspension in water, and evaporation of solvent

INVENTOR: BURIN, J; CHIODI, F; GROLLIER, J; RICHOUX, I; ROSENBAUM, G; HANSENNE-RICHOUX, I; GROLLIER, JF; HANSENNERI, I

PATENT-ASSIGNEE:

ASSIGNEE CODE L'OREAL SA OREA

PRIORITY-DATA: 1989FR-0013358 (October 12, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 2027501 C	July 18, 2000	F	000	B01J013/12
EP 422978 A	April 17, 1991		000	
CA 2026763 A	April 13, 1991		000	
CA 2027501 A	April 13, 1991		000	
FR 2653015 A	April 19, 1991		000	
JP 03178930 A	August 2, 1991		000	
JP 03207443 A	September 10, 1991		000	
US 5192544 A	March 9, 1993		011	A61K007/06
US 5234635 A	August 10, 1993		007	B01J013/12
EP 422978 B1	December 22, 1993	F	016	A61K009/127
DE 69005410 E	February 3, 1994		000	A61K009/127
ES 2047882 T3	March 1, 1994		000	A61K009/127
JP 94065381 B2	August 24, 1994		800	B01J013/02

DESIGNATED-STATES: AT BE CH DE ES FR GB GR IT NL SE AT BE CH DE DK ES FR GB GR IT LI NL SE

CITED-DOCUMENTS: EP 55576

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CA 2027501C	October 11, 1990	1990CA-2027501	
EP 422978A	September 26, 1990	1990EP-0402648	
FR 2653015A	October 12, 1989	1989FR-0013358	
JP 03178930A	October 12, 1990	1990JP-0275166	
JP 03207443A	October 12, 1990	1990JP-0275167	
US 5192544A	October 11, 1990	1990US-0595474	
US 5234635A	October 11, 1990	1990US-0595473	
EP 422978B1	September 26, 1990	1990EP-0402648	
DE 69005410E	September 26, 1990	1990DE-0605410	
DE 69005410E	September 26, 1990	1990EP-0402648	
DE 69005410E		EP 422978	Based on
ES 2047882T3	September 26, 1990	1990EP-0402648	
ES 2047882T3		EP 422978	Based on
JP 94065381B2	October 12, 1990	1990JP-0275167	
JP 94065381B2		JP 3207443	Based on

INT-CL (IPC): A61K 7/06; A61K 9/10; A61K 9/12; A61K 9/127; A61K 9/133; A61K 9/27; A61K 31/44; A61K 31/50; A61K 31/505; B01J 13/00; B01J 13/02; B01J 13/12

RELATED-ACC-NO: 1991-134258

ABSTRACTED-PUB-NO: EP 422978A

BASIC-ABSTRACT:

Aq. dispersions of <u>lamellar</u> lipidic vesicles, in which each of the vesicles comprises a lipidic spherical leaf enclosing an aq. liq., are prepd. by (a) a lipid is dissolved in an organic solvent that is immiscible with water, (b) this organic phase is added to an aq. phase, the respective quantities of each being such that an oil-in-water dispersion is obtd., (c) under vigorous agitation, the mixt. is dispersed, and (d) maintaining the vigorous agitation, the solvent and a part of the water are evapd.

USE/ADVANTAGE - The aq. liq. enclosed within each vesicle may contain a

pharmaceutical or a cosmetic. Less heating is required than with conventional processes, and so it is possible to encapsule heat-sensitive materials. It also gives a prod. of very good quality within a short time.

ABSTRACTED-PUB-NO:

EP 422978B EQUIVALENT-ABSTRACTS:

Process for the preparation of an aqueous dispersion of <u>lamellar</u> lipid vesicles, each of which is composed of at least one spheroidal lipid sheet which encapsulates an aqueous liquid, in which: (a) in a first step, at least one lipid is dissolved in at least one organic solvent, (b) in a second step, the organic phase obtained in the first step is added to an aqueous phase, (c) in a third step, the mixture from the second step is dispersed with stirring, and (d) in a fourth step, the solvent(s) is(are) evaporated at the same time as a portion of the water, characterised in that the organic solvent(s) from step (a) is(are) immiscible with water, in that the respective amounts of the two phases from step (b) are such that the dispersion subsequently obtained is a dispersion of the oil-in-water type (O/W); and in that steps (c) and (d) are carried out with vigorous stirring, the continuous phase of the dispersion always remaining the aqueous phase.

#### US 5192544A

Cosmetic or pharmaceutical compsn. for topical application contains at least 1 retinoid deriv. and at least 1 pyrimidine deriv. The compsn. comprises a dispersion of vesicles of at least 1 ionic and/or nonionic amphiphilic lipid. The vesicles are bound by at least 1 lipid lamella(e) in an aq. dispersion phase. The retinoid deriv(s). are in the lipid lamella(e). The pyrimidine deriv(s). is/are in the form of

a soln. or at least partially in the form of a suspension in the aq. phase. Pref. the amphiphilic lipid is natural or synthetic phospholipid. The retinoid deriv. is e.g. retinal, <u>retinol</u>, <u>retinyl</u> acetate or retinoic acid.

USE/ADVANTAGE - Used for inducing and stimulating hair growth and reducing hair loss. The compsn. is light and storage stable.

#### US 5234635A

An aq. dispersion of <u>lamellar</u> lipid vesicles, each composed of at least 1 spheroidal lipid sheet enclosing an aq. liquid, is prepd. by A) dissolving a lipid in a water immiscible organic solvent, B) adding the organic soln. obtd. to an aq. phase in wt. ratio 0.1-0.6 to obtain an oil-in-water dispersion and C) dispersing the mixt. with stirring and evaporating with stirring the organic solvent concurrent with portion of water. Stirring is carried out with a rotating stirrer whose circumferential velocity is above to m/sec. at its free end and having an angular velocity 1,000 rpm.

The solvent pref. boils below 50 deg. C under 1.5 x 10 (4) to 10 (5) pascals. The solvent is e.g. CHCl3 Et acetate, benzene, petroleum ether. The organic phase contians 5-50 wt. % lipid, esp. a nonionic and/or ionic lipid e.g. a (branched) polyglycol ether, a polyethoxylated fatty alcohol, a natural or synthetic glycolipid.

 ${\tt USE/ADVANTAGE}$  - For encapsulation of pharmaceutical or cosmetic agents to protect them against outside influences.

CHOSEN-DRAWING: Dwg.0/1 Dwg.0/0 Dwg.0/1

TITLE-TERMS: PREPARATION LIPID VESICLE AQUEOUS SUSPENSION SOLUTION LIPID SOLVENT SUSPENSION WATER EVAPORATION SOLVENT

DERWENT-CLASS: A96 B05 B07 D21 E19

CPI-CODES: A12-V; B04-B01B; B04-B02D1; B04-C03C; B10-D03; B10-E04C; B12-L02; B12-M11F; D08-B10; E01; E10-D03A; E10-D03C; E10-E04; E10-H01D;

#### CHEMICAL-CODES:

#### Chemical Indexing M1 \*01\*

Fragmentation Code

H401 H402 H403 H404 H405 H481 H482 H483 H484 H5 H589 H721 H722 H8 J011 J271 M225 M226 M231 M262 M272 M280 M281 M312 M313 M316 M323 M331 M332 M333 M340 M342 M383 M393 M423 M431 M510 M520 M530 M540 M620 M782 M903 M904 Q120 Q254 R024 V743 V772 V795 Markush Compounds 199116-10601-M

#### Chemical Indexing M2 \*03\*

Fragmentation Code

H4 H401 H402 H403 H404 H405 H481 H482 H483 H484 H721 H722 H8 J0 J011 J012 J271 J3 J371 J372 K620 M210 M211 M212 M220 M221 M222 M223 M224 M225 M226 M231 M232 M233 M262 M273 M280 M281 M282 M312 M313 M314 M315 M316 M321 M331 M332 M333 M342 M343 M349 M381 M383 M391 M416 M431 M620 M782 M903 M904 Q254 R024

Markush Compounds 199116-10601-M

#### Chemical Indexing M2 \*04\*

Fragmentation Code

H4 H402 H403 H404 H405 H482 H483 H484 H581 H582 H583 H584 H721 H722 H723 H8 J011 J271 M225 M226 M231 M232 M233 M262 M272 M281 M312 M313 M321 M322 M323 M331 M332 M340 M342 M343 M383 M391 M392 M393 M416 M431 M620 M782 M903 M904 O254 R024

Markush Compounds 199116-10602-M

#### Chemical Indexing M3 \*03\*

Fragmentation Code H4 H401 H402 H403 H404 H405 H481 H482 H483 H484 H721 H722 H8 J0 J011 J012 J271 J3 J371 J372 K620 M210 M211 M212 M220 M221 M222 M223 M224 M225

M226 M231 M232 M233 M262 M273 M280 M281 M282 M312 M313 M314 M315 M316 M321 M331 M332 M333 M342 M343

M349 M381 M383 M391 M416 M431 M620 M782 M903 M904 Q254 R024

Markush Compounds

199116-10601-M

#### Chemical Indexing M3 \*04\*

Fragmentation Code

H4 H402 H403 H404 H405 H482 H483 H484 H581 H582 H583 H584 H721 H722 H723 H8 J011 J271 M225 M226 M231 M232 M233 M262 M272 M281 M312 M313 M321 M322 M323 M331 M332 M340 M342 M343 M383 M391 M392 M393 M416 M431 M620 M782 M903 M904 Q254 R024 Markush Compounds

Chemical Indexing M5 \*02\*

199116-10602-M

Fragmentation Code

M431 M782 M903 M904 M910 Q254 R024 S005 S032 S131 S133 S134 S142 S143 S303 S317 S503 U560 U563 Specfic Compounds 00148M

Chemical Indexing M6 \*05\* Fragmentation Code M903 Q120 Q254 R024 R111

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0148U; 0273U; 0345U; 0904U; 1056U; 1135U

#### POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0013 3003 0211 0224 0231 1279 1339 1588 1592 1634 1999 2000 2002 2014 2021 2318 2378 2386 2393 2504 2507 2585 2761 2766

Multipunch Codes: 014 028 039 04- 13- 147 157 169 176 198 231 239 24& 240 31- 316 332 336 37- 397 398 402 408 409 414 42- 427 436 44& 525 575 58- 583 589 645 688 720 723 726 728

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1991-047867